

1. NAME: JONATHAN A. HARE

U.S. Citizen

Registered for Selective Service in 1983

2. PROFESSIONAL ADDRESS:

NOAA National Marine Fisheries Service
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3. CURRENT TITLE/POSITION/GRADE

Supervisory Research Oceanographer – Northeast Fisheries Science Center, Ecosystem
Processes Division Acting Chief - ZPV

4. EDUCATIONAL HISTORY

Degrees

Ph.D. Oceanography, State University of New York at Stony Brook. 1994.
B.A. Biology, Wesleyan University, Middletown, Connecticut. 1987.

Professional Development

Leadership for the 21st Century – February 2016 – Instructor: Hugh O’Doherty, Harvard
Kennedy School
NOAA NMFS Core Policy Training – March 2011, September 2014 – Instructor: Julie Champlin-
Gonzales, Southwest Regional Office
Ecological and Environmental Sampling – Web-based course - March 2011 – Instructor: Brian
Manly - Western EcoSystem Technology
Statistical Analysis Using R – Web based course - April-May 2007 – Instructor: John Verzani -
College of Staten Island
Model selection and multimodel inference – a practical information-theoretic approach –
Short course – March 2007 – Instructor: David Anderson - Colorado Cooperative Fish and
Wildlife Research Unit (USGS-BRD)

5. PROFESSIONAL HISTORY

Supervisory Research Oceanographer – Acting Ecosystems Processes Division Chief (June 2015 - present) – ZP V – Russell Brown (Supervisor) - NOAA NMFS NEFSC Narragansett Laboratory – Full-time.

- Manage personnel and research resources of Division with ~30 federal staff and ~30 affiliate staff working at 4 locations in the NEFSC; oversee four branches with 1 full-time branch chief and 2 acting branch chiefs; The Division seeks to understand the effects of natural and human-induced environmental factors on fishery resources, and ultimately to predict the effects of variation in such factors on the composition, distribution, abundance, and production. Research includes process-oriented field and lab studies, as well as long-term ecosystem observation.
- Develop Division staffing and research budgets for FY16; prioritize research activities and define deliverables; work with Branch Chiefs to re-align Division research priorities based on NEFSC Strategic Plan 2016-2012
- Review and implement policies to ensure the smooth operation of the Division; revise, communicate, and implement time card, travel, work schedule, and leave policies; oversee staff at 4 locations throughout the NEFSC and interact with facility managers to ensure staff needs are identified and met
- Participate in NEFSC-level planning for Strategic Plan, FY16-18 strategic budget planning, and FY16 tactical budget planning; cooperate with other Division Chiefs and Program leads to develop NEFSC priorities and allocate resources to meet those priorities

Supervisory Research Oceanographer – Oceanography Branch Chief (June 2008 to June 2015) – ZP-IV/V – Thomas Noji (Supervisor) - NOAA NMFS NEFSC Narragansett Laboratory – Full-time.

- Supervise and manage staff of 15-20 federal employees, contractors, and post-docs. Write performance plans and evaluations and providing feedback to staff. Formulate annual and/or quarterly budgets and provide guidance to ensure that sub-programs function within proscribed limits. Other administrative responsibilities include oversight of property and purchasing. Contribute to NEFSC tactical and strategic planning. Establish and maintain cross-NMFS, cross-NOAA, and external partnerships and collaborations. Initiate and execute major studies, specialized projects, and new analytical developments. Modernize administrative and scientific processes to improve efficiency and address long-standing problems.
- Provide oceanographic, ecological, and ecosystem information related marine resources off the northeastern United States. Data products provided to inform management of commercial and recreational fisheries, protected species, and marine ecosystems. the Northeast U.S. Shelf. These complex and controversial issues are communicated to diverse audiences verbally and in writing.

- Lead a research program in collaboration with federal and academic partners. Topics include: i) use of oceanographic information in single species and ecosystem assessments, ii) effects of climate change on fishery species; ii) understanding the structure and function of the northeast U.S. continental shelf Large Marine Ecosystem, iii) the biological and physical processes that drive the dynamics of marine fishes, and iv) larval fish and invertebrate ecology and taxonomy.
- Oversee multi-objective oceanographic survey programs for the Northeast U.S. Shelf. Set goals and work with staff and partners to achieve mission objectives. Programs include: i) CTD operations from most NEFSC shipboard surveys; approximately 1500 casts are made per year; ii) the NEFSC Ship of Opportunity Program with merchant vessels sampling transects in Gulf of Maine and Middle Atlantic Bight (ended Dec 2013) and iii) Ecosystem Monitoring surveys conducted from NOAA research vessels from Cape Hatteras, North Carolina to Nova Scotia.
- Work in the Ecosystem Assessment Program to provide climatic, oceanographic, and lower-trophic level information to ecosystem assessment activities. Oversee plankton and oceanographic research and develop collaborations with various NOAA and academic partners.
- Provide NEFSC leadership on climate change. Contributed to NMFS Climate Science Strategy and co-leading development of Northeast Regional Action Plan. Lead for Northeast Fisheries Climate Vulnerability Assessment and contributed to development of national fisheries climate vulnerability assessment methodology. Participant in NEFSC Ocean Acidification Program and leader of monitoring and modeling components. Communicate issue of climate effects on fisheries and protected species at Fisheries Management Councils, universities, and other public forums.

Director, NOAA Narragansett Laboratory (June 2012 to present) – Russell Brown (non-supervisory supervisor) - Oversee Laboratory functions and operations for ~55 staff representing all but 1 of the NEFSC Divisions and Programs. Develop and sustain a creative scientific atmosphere that supports NOAA's mission. Build and foster partnerships with other marine science institutions in the region.

Supervisory Research Marine Scientist – Plankton Investigation Chief (February 2005 to June 2008) – ZP-IV – David Mountain (Supervisor) - NOAA NMFS NEFSC Narragansett Laboratory – Full-time. Supervise 8-12 federal employees, contractors and post-docs. Oversee plankton monitoring and research group for the Northeast Fisheries Science Center. Monitoring programs include the NEFSC Ship of Opportunity Program with merchant vessels sampling transects in Gulf of Maine and Middle Atlantic Bight and Ecosystem Monitoring surveys conducted from NOAA research vessels from Cape Hatteras, North Carolina to Nova Scotia. Conduct research examining i) the biological and physical processes that drive the dynamics of marine fishes, ii) biological-physical coupling in the marine environment, and iii) larval fish and invertebrate ecology and taxonomy.

Research Fishery Biologist (August 1997 to February 2005) - GS11/GS12/GS13 – Donald Hoss (Supervisor) - NOAA NOS Center for Coastal Fisheries and Habitat Research – Full-time. – Serve as Leader for Fisheries Oceanography and Ecology Team 2002-2005. Conduct and lead research into the biological and physical processes that drive the dynamics of marine fishes and determine the structure of marine fish communities; examine biological-physical coupling in the marine environment; study larval fish ecology and taxonomy.

National Research Council Research Associate (October 1994 to August 1997) – John J. Govoni (Advisor) - NOAA Beaufort Laboratory – Full-time - Examined physical and biological mechanisms responsible for the cross-shelf transport of larval fishes on the southeast U.S. continental shelf.

Graduate Research Assistant - SUNY Stony Brook (September 1988 – October 1994) – Robert K. Cowen (Advisor) - Researched the processes affecting the larval survival and recruitment of bluefish along the east coast of the United States.

6. AWARDS

Professional Awards

2011 OAR Outstanding Scientific Paper Award – November 2013

Forecasting the dynamics of a coastal fishery species using a coupled climate population model. *Ecological Applications* 20: 452-464, doi:10.1890/08-1863.1

NEFSC Supervisor of the Year Award – April 2007, April 2010

NOAA Administrator Award – May 2003

W.F. Thompson Award, American Institute of Fishery Research Biologists - August 1999

Sally Richardson Award for Best Student Paper, Larval Fish Conference - June 1994

Northeast Fish and Wildlife Conference Best Student Paper - April 1993

Sally Richardson Award for Best Student Paper, Larval Fish Conference - June 1991.

Fellowships

National Research Council Research Associateship - 1994 - *renewed in* 1995 & 1996.

New York Sea Grant Institute Thesis Completion Award – 1994.

Hudson River Foundation Doctoral Fellowship – 1993.

American Fishing Tackle Manufacturers Association, Andrew J. Boehm Fellowship – 1993.

Sounds Conservancy Grant in Marine Conservation, Education and Research –1993.

American Museum of Natural History, Lerner Gray Fund for Marine Research – 1992.

Competitive Grants and Funding Awards

NOAA Ocean Acidification Program - *Monitoring of water column DIC, TA and pH on the NE US shelf and the development of OA Indicators to inform marine resource managers* – Jonathan Hare, Nathan Rebuck, and Chris Melrose – 2015-2017

Improve a Stock Assessment - *An examination of inter-annual trends and stock structure to improve the Red Hake stock assessment* - Jonathan Hare, Katrin Marancik, Katherine Sosebee, and Michele Travers – 2015-2016

NMFS Habitat Assessment Improvement Plan (HAIP) Working Group - *Physiological ecology and habitat suitability: combining experiments and surveys to inform stock assessments* – Jonathan Hare, Grace Saba, John Manderson, Mark Wuenschel – 2014-2015

Advanced Sampling Technology Working Group (NMFS) - *Development of benchtop optical techniques to support NMFS plankton sampling programs* – Jonathan Hare, Jeffrey Napp, and Joanne Lyczkowski-Shultz - 2012.

International Science Program (NMFS) - *Gaining an international perspective on ecosystem surveys: participation in a cross-Atlantic EURO-BASIN cruise* – Jonathan Hare, and Michael St. John - 2011

NMFS Habitat Assessment Improvement Plan (HAIP) Working Group - *Incorporating measures of habitat area into stock assessments: a case study with winter flounder and summer flounder* - Jonathan Hare and John Manderson - 2011

Fisheries and the Environment (NMFS) – *Improving fishery-independent acoustic and larval indices for use in the upcoming benchmark Atlantic herring assessment*. Jonathan Hare, James Churchill, David Richardson, Michael Jech, Jonathan Deroba, and Harvey Walsh - 2011

Fisheries and the Environment (NMFS) – *The Mid-Atlantic cold pool and stock assessments: developing environmental indices at the range limit of species* - David Richardson, Jonathan Hare, Larry Jacobsen, Chris Legault, David Mountain, Janet Nye - 2010

Climate Data Modernization Program (NOAA) - *Historical Fisheries Data Rescue in the Northeast United States* – Jonathan Hare, Nancy Kohler, Jason Link, Patricia Pinto da Silva. 2009

Advanced Sampling Technology Working Group (NMFS) – *Development and evaluation of new technology for the remote identification and enumeration of larval fish* – Jonathan Hare and Robert Cowen. 2008

Fisheries and the Environment (NMFS) – *Developing zooplankton and larval indices for use in Atlantic herring (Clupea harengus) stock assessments* - Jonathan Hare, William Overholtz and Kenneth Able. 2007.

National Sea Grant Program. *Is growth a reliable indicator of essential fish habitat?* – Dave Eggleston, Jonathan Hare, and Steven Searcy – 2002.

Center for Coastal Ocean Sponsored Research, South Florida Ecosystem Research and Monitoring Program – *Development of spatially-explicit models to predict growth-potential of age-0 gray snapper, Lutjanus griseus, in Florida Bay during restoration of freshwater flows*. Jonathan Hare, Lawrence Settle and Mark Wuenschel – 2002.

Center for Coastal Ocean Sponsored Research, Gulf of Mexico Ecosystems & Hypoxia Assessment – *Development of larval fish vertical distribution models for use with physical transport models, biological production models, and hypoxia effect models in the Northern Gulf of Mexico* - Jonathan Hare and John Govoni - 2001

National Sea Grant Program, Virginia Sea Grant Program – *Fisheries habitat: identifying larval sources and essential fish habitat of juvenile snappers along the southern coast of the*

United States – Simon Thorrold, Luiz R. Barbieri, Robert K. Cowen, Jonathan A. Hare, Cynthia Jones, and Su Sponaugle – 2000.

National Science Foundation, Biological Oceanography – *Recruitment of marine fish larvae to estuarine nursery systems: insights from high resolution analysis of otolith chemistry and hydrodynamics* – Cynthia Jones, Simon Thorrold, Arnaldo Valle-Levinson and Jonathan Hare - Old Dominion University – 1999.

National Undersea Research Center Wilmington, Development Grant – *Use of a novel gear type to evaluate the association of juvenile scombroids with the Gulf Stream front.* – Jonathan Hare and John Govoni – 1996.

7. PUBLICATIONS

Peer-Reviewed Journal Publications – Senior Author

1. **Hare JA**, Cowen RK. 1991. Expatriation of *Xyrichtys novacula* (Pisces: Labridae) larvae: Evidence of rapid cross-slope exchange. *Journal of Marine Research* 49:801-823.
2. **Hare JA**, Cowen RK. 1993. Ecological and evolutionary implications of the larval transport and reproductive strategy of bluefish *Pomatomus saltatrix*. *Marine Ecology Progress Series* 98:1-16.
3. **Hare JA**, Cowen RK. 1994. Ontogeny and otolith microstructure of bluefish *Pomatomus saltatrix* (Pisces: Pomatomidae). *Marine Biology* 118:541-550.
4. **Hare JA**, Cowen RK, Zehr JP, Juanes F, Day KH. 1994. Biological and oceanographic insights from larval labrid (Pisces: Labridae) identification using mtDNA sequences. *Marine Biology* 118:17-24.

Hare JA, Cowen RK, Zehr JP, Juanes F, Day KH. 1998. A correction to: Biological and oceanographic insights from larval labrid (Pisces: Labridae) identification using mtDNA sequences. *Marine Biology* 130:589-592.
5. **Hare JA**, Cowen RK. 1995. Effect of age, growth rate and ontogeny on the otolith size-fish size relationship in bluefish, *Pomatomus saltatrix*, and the implications for backcalculation of size in the early life history stages of fishes. *Canadian Journal of Fisheries and Aquatic Sciences* 52:1909-1922.
6. **Hare JA**, Cowen RK. 1996. Transport mechanisms of bluefish (*Pomatomus saltatrix*) larvae from South Atlantic Bight spawning grounds to Middle Atlantic Bight nursery habitats. *Limnology and Oceanography* 41:1264-1280

7. **Hare JA**, Cowen RK. 1997. Size, growth, development and survival of the planktonic larvae of *Pomatomus saltatrix* (Pisces: Pomatomidae) Ecology 78:2415-2431.
8. **Hare JA**, Quinlan JA, Werner FE, Blanton BO, Govoni JJ, Forward RB, Settle LR, Hoss DE. 1999. Larval transport during winter in the SABRE study area: results of a coupled vertical larval behavior-three-dimensional circulation model. Fisheries Oceanography. 8 (supplement):57-76.
9. **Hare JA**, Fahay MP, Cowen RK. 2001. Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larval assemblages, relation to hydrography and implications for larval transport. Fisheries Oceanography 10: 164-192.
10. **Hare JA**, Hoss DE, Powell AB, Konieczna M, Peters DS, Cummings SR, Robbins RE. 2001. Larval distribution and abundance of the family Scombridae and Scombrolabracidae in the vicinity of Puerto Rico and the Virgin Islands. Bulletin of the Sea Fisheries Institute 153(2):13-30.
11. **Hare JA**, Churchill JH, Cowen RK, Berger T, Cornillon P, Dragos P, Glenn S, Govoni JJ, Lee TN. 2002. Routes and rates of larval fish transport from the southeastern to the mid-Atlantic North American continental shelf. Limnology and Oceanography 47:1774-1789.
12. **Hare JA**, Govoni JJ. 2005. Vertical distribution and the outcome of larval fish transport along the southeast United States continental shelf during winter. Fishery Bulletin 103: 728-736.
13. **Hare JA**, Thorrold ST, Walsh H, Reiss C, Valle-Levinson A, Jones C. 2005. Bio-physical mechanisms of larval fish ingress into Chesapeake Bay. Marine Ecology Progress Series 303: 295-310.
14. **Hare JA**, Walsh HJ, Wuenschel MJ. 2006. Sinking rates of late-stage fish larvae ingressing into estuarine nursery habitats. Journal of Experimental Marine Biology and Ecology 330: 493-504
15. **Hare JA**, Able KW. 2007. Mechanistic links between climate and fisheries along the east coast of the United States: explaining population outbursts of Atlantic croaker (*Micropogonias undulatus*). Fisheries Oceanography 16: 31-45.
16. **Hare JA**, Walsh HJ. 2007. Planktonic linkages among Marine Protected Areas on the south Florida and southeast United States continental shelf. Canadian Journal of Fisheries and Aquatic Sciences 64: 1234-1247.

17. **Hare JA**, Alexander M, Fogarty M, Williams E, Scott J. 2010. Forecasting the dynamics of a coastal fishery species using a coupled climate-population model. *Ecological Applications* 20: 452-464.
18. **Hare JA**, Manderson J, Nye J, Alexander M, Auster PJ, Borggaard D, Capotondi A, Damon-Randall K, Heupel E, Mateo I, O'Brien L, Richardson D, Stock C, Biegel ST. 2012. Cusk (*Brosme brosme*) and climate change: assessing the threat to a candidate marine fish species under the U.S. Endangered Species Act. *ICES Journal of Marine Science* 69:1753-1768.
19. **Hare JA**, Wuenschel MJ, Kimball ME. 2012. Projecting range limits with coupled thermal tolerance - climate change models: an example based on gray snapper (*Lutjanus griseus*) along the U.S. East Coast. *PLoS ONE* 7(12): e52294. doi:10.1371/journal.pone.0052294
20. **Hare JA**. 2014. The future of fisheries oceanography lies in the pursuit of multiple hypotheses. *ICES Journal of Marine Science* 71: 2343-2356.
21. **Hare JA**, Brooks EN, Palmer MC, Churchill JH. 2015. Re-evaluating the effect of wind on recruitment in Gulf of Maine Atlantic Cod (*Gadus morhua*) using an environmentally-explicit stock recruit model. *Fisheries Oceanography* 24: 90–105
22. **Hare JA**, Morrison WE, Nelson MW, Stachura MM, Teeters EJ, Griffis RB, Alexander MA, Scott JD, Alade L, Bell RJ, Chute AS, Curti KL, Curtis TH, Kircheis D, Kocik JF, Lucey SM, McCandless CT, Milke LM, Richardson DE, Robillard E, Walsh HJ, McManus MC, Marancik KE, Griswold CA. 2016. A vulnerability assessment of fish and invertebrates to climate change on the Northeast U.S. Continental Shelf. *PLoS ONE* 11(2): e0146756. doi: 10.1371/journal.pone.0146756

Peer-Reviewed Journal Publications – Junior Author

23. Cowen RK, **Hare JA**, Fahay MP. 1993. Beyond hydrography: Can physical processes explain larval fish assemblages within the Middle Atlantic Bight? *Bulletin of Marine Science* 53:567-587.
24. Juanes F, **Hare JA**, Miskiewicz AT. 1996. Comparing early life history strategies of *Pomatomus saltatrix*: a global approach. *Marine and Freshwater Research* 47:365-379
25. Marks RE, Juanes F, **Hare JA**, Conover DO. 1996. The occurrence and effect of the parasitic isopod *Lironeca ovalis* (Isopoda, Cymothoidae), on young-of-the-year bluefish, *Pomatomus saltatrix* (Pisces, Pomatomidae). *Canadian Journal of Fisheries and Aquatic Sciences* 53: 2052-2057.

26. Hettler WF, **Hare JA**. 1998. Abundance and size of larval fishes outside the entrance to Beaufort Inlet, North Carolina. *Estuaries* 21: 476-499.
27. Begg GA, **Hare JA**, Sheehan DD. 1999. The role of life history parameters as indicators of stock structure. *Fisheries Research* 43:141-163.
28. Powell AB, Lindquist DG, **Hare JA**. 2000. Larval and pelagic juvenile fishes collected with three types of gear in Gulf Stream and shelf waters off North Carolina. *Fishery Bulletin* 98: 427-438.
29. Rogers JS, **Hare JA**, Lindquist DG. 2001. The otolith record of age, growth and ontogeny in larval and pelagic juvenile *Stephanolepis hispidus* (Pisces: Monacanthidae). *Marine Biology* 138: 945-953.
30. Whitfield P, Gardner T, Vives SP, Gilligan MR, Courtenay WR., Ray GC, **Hare JA**. 2002. Biological invasion of the Indo-Pacific lionfish (*Pterois volitans*) along the Atlantic coast of North America. *Marine Ecology Progress Series* 235:289-297.
31. Govoni JJ, Laban EH, **Hare JA**. 2003. Age, growth, and early life history of swordfish, *Xiphias gladius*, in the Western North Atlantic. *Fishery Bulletin*. 101:778-789.
32. Tzeng MW, **Hare JA**, Lindquist DG. 2003. Ingress of transformation stage gray snapper, *Lutjanus griseus* (Pisec: Lutjanidae) through Beaufort Inlet, North Carolina. *Bulletin of Marine Science* 72: 891-908.
33. Wuenschel MJ, Jugovich AR, **Hare JA**. 2004. Effect of temperature and salinity on feeding and growth of juvenile gray snapper (*Lutjanus griseus*): implications for nursery habitat value. *Journal of Experimental Marine Biology and Ecology* 312: 333-347.
34. Kimball ME, Miller JM, Whitfield PE, Hare JA. 2004. Using temperature tolerance to predict the distribution of the invasive lionfish (*Pterois volitans/miles* complex) on the east coast of the United States. *Marine Ecology Progress Series* 283: 269-278.
35. Fey DP, Bath GE, Morris JA, **Hare JA**. 2005. Effect of otolith type and preparation technique on age estimation of larval and juvenile spot (*Leiostomus xanthurus*). *Fishery Bulletin* 103: 544-552
36. Fey DP, **Hare JA**. 2005. Length correction of larval and early-juvenile Atlantic menhaden (*Brevoortia tyrannus*) after preservation in alcohol. *Fishery Bulletin* 103: 725-727.

37. Hawn AT, Martin GB, Sandin SA, **Hare JA**. 2005. Early juvenile mortality in the coral reef fish *Chromis cyanea* (Pomacentridae): the growth-mortality hypothesis revisited. *Bulletin of Marine Science* 77:309-318.
38. Marancik KE, Clough L, **Hare JA**. 2005. Cross-shelf and seasonal variation in larval fish assemblages in the Georgia Bight region of the southeast United States continental shelf. *Fishery Bulletin* 103: 108-129.
39. Weunschel MJ, Jugovich AR, **Hare JA**. 2005. Metabolic response of juvenile gray snapper (*Lutjanus griseus*) to temperature and salinity: physiological costs of different environments. *Journal of Experimental Marine Biology and Ecology* 321: 145-154.
40. Edwards KP, **Hare JA**, Werner FE, Blanton BO. 2006. Lagrangian circulation on the southeast US continental shelf: implications for larval dispersal and retention. *Continental Shelf Research* 26: 1375-1394.
41. Ferguson RL, Kouse C, Patterson M, **Hare JA**. 2006. Automated thematic registration of NOAA, CoastWatch, and AVHRR images. *Photogrammetric Engineering and Remote Sensing* 72: 677-685.
42. Powles PM, **Hare JA**, Laban EH, Warlen SM. 2006. Does eel metamorphosis cause a breakdown in the tenets of otolith applications? A case study using the speckled worm eel (*Myrophis punctatus*, Ophichthidae). *Canadian Journal of Fisheries and Aquatic Sciences* 63: 1460-1468.
43. Sullivan MC, Able KW, **Hare JA**, Walsh HJ. 2006. *Anguilla rostrata* glass eel ingress into two, U.S. east coast estuaries: patterns, processes and implications for adult abundance. *Journal of Fish Biology* 69: 1081-1101.
44. Thorrold SR, Jones GP, Planes SR, **Hare JA**. 2006. Trans-generational labeling of embryonic otoliths in marine fish via maternal transmission of enriched stable isotopes. *Canadian Journal of Fisheries and Aquatic Sciences* 63: 1193-1197.
45. Walsh HJ, Marancik KE, **Hare JA**. 2006. Juvenile fish assemblages collected on unconsolidated sediments of the southeast United States continental shelf. *Fishery Bulletin* 104: 256-277.
46. Weunschel MJ, Jugovich AR, **Hare JA**. 2006. Estimating the energy density of fish: the importance of ontogeny. *Transactions of American Fisheries Society* 135: 379-385.

47. Whitfield PE, **Hare JA**, David AW, Harter SL, Muñoz, Addison CM. 2006. Abundance estimates of the Indo-Pacific lionfish *Pterois volitans/miles* complex in the Western North Atlantic. Biological Invasions. DOI 10.1007/s10530-006-9004-9.
48. Edwards KP, **Hare JA**, Werner FE, Seim H. 2007. Using two-dimensional dispersal kernels to identify the dominant influences on larval dispersal on continental shelves. Marine Ecology Progress Series 353: 77-87.
49. Friedland KD, **Hare JA**. 2007. Long term trends and regime shifts in sea surface temperature on the continental shelf of the Northeast United States. Continental Shelf Research 27: 2313-2328.
50. Marancik KE, **Hare JA**. 2007. Large-scale patterns in fish trophodynamics of estuarine and shelf habitats of the southeast United States. Bulletin of Marine Science 80: 67-91.
51. Pineda J, **Hare JA**, Sponaugle S. 2007. Larval transport and dispersal in the coastal ocean and consequences for population connectivity. Oceanography 20: 24-41.
52. Searcy SE, Eggleston DE, **Hare JA**. 2007. Is growth a reliable indicator of habitat quality and Essential Fish Habitat for a juvenile estuarine fish? Canadian Journal of Fisheries and Aquatic Sciences 64: 681-691. DOI 10.1139/F07-038.
53. Searcy SE, Eggleston DE, **Hare JA**. 2007. Environmental influences on the relationship between juvenile and larval growth for Atlantic croaker, *Micropogonias undulatus*. Marine Ecology Progress Series 349: 81-88.
54. Edwards KP, **Hare JA**, Werner FE. 2008. Dispersal of black sea bass (*Centropristis striata*) larvae on the southeast U.S. continental shelf: results of a coupled vertical larval behavior- 3D circulation model. Fisheries Oceanography 17: 299-315.
55. Fey DP, **Hare JA**. 2008. Fluctuating asymmetry in the otoliths of larval Atlantic menhaden (*Brevoortia tyrannus*) - a condition indicator. Journal of Fish Biology 72: 121-130.
56. Friedland KD, **Hare JA**, Wood GB, Col LA, Buckley LJ, Mountain DG, Kane J, Brodziak J, Lough RG, Pilskaln CH. 2008. Does the fall bloom control recruitment of Georges Bank haddock, *Melanogrammus aeglefinus*, through parental condition? Canadian Journal of Fisheries and Aquatic Science 65: 1076-1086.
57. Vandersea MW, Litaker RW, Marancik KE, **Hare JA**, Walsh HJ, Lem S, West MA, Wyanski DM, Laban EH, Tester PA. 2008. Larval identification of sea basses (*Centropristis*) using ribosomal DNA specific PCR assays. Fishery Bulletin 106:183-193.

58. Drinkwater KF, Mueter FJ, Friedland KD, Taylor M, Hunt GL, **Hare JA**, Melle W. 2009. Recent climate forcing and physical oceanographic changes in Northern Hemisphere regions: A review and comparison of four marine ecosystems. *Progress in Oceanography* 81:10-28.
59. Hernandez FJ, **Hare JA**, Fey DP. 2009. Evaluating diel, ontogenetic and environmental effects on larval fish vertical distribution using generalized additive models for location, scale and shape (GAMLSS). *Fisheries Oceanography* 18: 224-236
60. Link JS, Stockhausen WT, Skaret G, Overholtz W, Megrey BA, Gjøsæter H, Gaichas S, Dommasnes A, Falk-Petersen J, Kane J, Mueter FJ, Friedland KD, **Hare JA**. 2009. A comparison of biological trends from four marine ecosystems: Synchronies, differences, and commonalities 81: 29-46.
61. Megrey BA, **Hare JA**, Stockhausen WT, Dommasnes A, Gjøsæter H, Overholtz W, Gaichas S, Skaret G, Falk-Petersen J, Link JS, Friedland KD. 2009. A cross-ecosystem comparison of spatial and temporal patterns of covariation in the recruitment of functionally analogous fish stocks. *Progress in Oceanography* 81: 63-92
62. Mueter FJ, Broms C, Drinkwater KF, Friedland KD, **Hare JA**, Hunt GL, Melle W, Taylor M. 2009. Ecosystem responses to recent oceanographic variability in high-latitude Northern Hemisphere ecosystems. *Progress in Oceanography* 81: 93-110.
63. Nye JA, Link JS, **Hare JA**, Overholtz WJ. 2009. Changing spatial distribution of fish stocks in relation to climate and population size on the Northeast United States continental shelf. *Marine Ecology Progress Series* 393:111-129
64. Taylor JC, Mitchell WA, Buckel JA, Walsh HJ, Shertzer KW, Martin GB, **Hare JA**. 2009. Relationships between larval and juvenile abundance of winter-spawned fishes in North Carolina, USA. *Marine and Coastal Fisheries* 1: 11-20.
65. Wood AJ, Collie JS, **Hare JA**. 2009. A comparison between warm-water fish assemblages of Narragansett Bay and those of Long Island Sound waters. *Fishery Bulletin* 107: 89-100.
66. Govoni JJ, **Hare JA**, Davenport ED, Chen MH, Marancik KE. 2010. Mesoscale, cyclonic eddies as larval fish habitat along the southeast United States shelf: a Lagrangian description of the zooplankton community. *ICES Journal of Marine Science* 67:403-411.
67. Richardson DE, **Hare JA**, Overholtz WJ, Johnson DL. 2010. Development of long-term larval indices for Atlantic herring (*Clupea harengus*) on the northeast U.S. continental shelf. *ICES Journal of Marine Science* 67:617-627.

68. Able KW, Sullivan MC, **Hare JA**, Bath-Martin G, Taylor JC, Hagan R. 2011. Larval abundance of summer founder (*Paralichthys dentatus*) as a measure of recruitment and stock status. *Fishery Bulletin* 109: 68-78
69. Able KW, Allen DM, Bath-Martin G, **Hare JA**, Hoss DE, Marancik KE, Powles PM, Richardson DE, Taylor JC, Walsh HJ. 2011. Life history and habitat use of the speckled worm eel, *Myrophis punctatus*, along the east coast of the United States. *Environmental Biology of Fishes* 92: 237-259
70. Link JS, Nye JA, **Hare JA**. 2011. Guidelines for incorporating fish distribution shifts into a fisheries management context. *Fish and Fisheries* 12: 461–469 - doi: 10.1111/j.1467-2979.2010.00398.x.
71. Overholtz WJ, **Hare JA**, Keith CM. 2011. Impacts of interannual environmental forcing and climate change on the distribution of Atlantic mackerel on the U.S. Northeast Continental Shelf. *Marine and Coastal Fisheries* 3:219–232.
72. Stock CA, Alexander MA, Bond NA, Brander K, Cheung WWL, Curchitser EN, Delworth TL, Dunne JP, Griffies SM, Haltuch MA, **Hare JA**, Hollowed AB, Lehodey P, Levin SA, Link JS, Rose KA, Rykaczewski RR, Sarmiento JL, Stouffer RJ, Schwing FB, Vecchi GA, Werner FE. 2011. On the use of IPCC-class models to assess the impact of climate on living marine resources. *Progress in Oceanography* 88: 1-27.
73. Johnson CL, Runge JA, Curtis KA, Durbin EG, **Hare JA**, Incze LS, Link J, Melvin GD, O'Brien TD, Van Guelpen L. 2011. Biodiversity and ecosystem function in the Gulf of Maine: pattern and role of zooplankton and pelagic nekton. *PLoS ONE* 6(1): e16491. doi:10.1371/journal.pone.0016491
74. Link JS, Bundy A, Overholtz WJ, Shackell N, Manderson J, Duplisea D, **Hare JA**, Koen-Alonso M, Friedland KD. 2011. Ecosystem-based fisheries management in the Northwest Atlantic. *Fish and Fisheries* 12: 152–170.
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77. Fey DP, **Hare JA**. 2012. Temperature and somatic growth effects on otolith growth of larval Atlantic menhaden, *Brevoortia tyrannus* (Actinopterygii: Clupeiformes: Clupeidae). *Acta Ichthyologica et Piscatoria* 42: 215–222.

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83. Bell RJ, **Hare JA**, Manderson JP, Richardson DE. 2014. Externally driven changes in the abundance of summer and winter flounder. *ICES Journal of Marine Science* 71: 2416-2428.
84. Bi H, Ji R, Liu H, Jo Y-H, **Hare JA**. 2014. Decadal changes in zooplankton of the Northeast U.S. continental shelf. *PlosONE* doi: 10.1371/journal.pone.0087720.
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92. Bell RJ, Richardson DE, **Hare JA**, Patrick PD, Fratantoni PS. 2015. Disentangling the effects of climate, abundance and size on the distribution of marine fish: an example based on four stocks from the Northeast U.S. Shelf. *ICES Journal of Marine Science* 72: 1311-1322.
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99. Turner SM, Manderson JP, Richardson DE, Hoey JJ, **Hare JA**. 2015. Using habitat association models to predict Alewife and Blueback Herring marine distributions and overlap with Atlantic Herring and Atlantic Mackerel: can incidental catches be reduced? *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsv166
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Book Chapters

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105. Fahay MP, **Hare JA** 2005. Order Ophidiiformes: Aphyonidae, Bythitidae, Ophidiidae. p. 661- 747. In Richards, WF. (ed.) *Early stages of Atlantic fishes: an identification guide for the western central Atlantic*. CRC Taylor and Francis.
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110. **Hare JA**, Kane J. 2012. Zooplankton of the Gulf of Maine – a changing perspective. p. 115-138. In: Stephenson RL, Annala JH, Runge JA, Hall-Arber (eds.) Advancing an ecosystem approach in the Gulf of Maine, American Fisheries Society, Symposium 79, Bethesda, Maryland.
111. Johnson CL, **Hare JA**. 2012. Zooplankton monitoring in the Gulf of Maine: Past, present, and future. p. 205-218. In: Stephenson RL, Annala JH, Runge JA, Hall-Arber (eds.) Advancing an ecosystem approach in the Gulf of Maine, American Fisheries Society, Symposium 79, Bethesda, Maryland.
112. Fogarty MJ, Friedland KD, Col L, Gamble R, **Hare JA**, Hyde K, Link JS, Lucey S, Liu H, Nye J, Overholtz WJ, Richardson D, Rountree B, Taylor MT. 2012. Status of the Northeast U.S. Continental Shelf Large Marine Ecosystem: An indicator-based approach. p.139-166. In: Stephenson RL, Annala JH, Runge JA, Hall-Arber (eds.) Advancing an ecosystem approach in the Gulf of Maine, American Fisheries Society, Symposium 79, Bethesda, Maryland.
113. **Hare JA**, Richardson DE. 2013. The use of early life stages in stock identification studies. p. 329-364. In: Cardin S, Kerr L, Mariani S (eds.) Stock Identification Methods, Academic Press. 592 pp.

Book Reviews

114. **Hare JA**. 2000. Larvae of temperate Australian fishes, laboratory guide for larval fish identification. Bulletin of Marine Science 67: 1024.
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Peer-Reviewed Reports

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117. Bode A, **Hare JA**, Li WKW, Morán XAG, Valdés L. 2011. Chlorophyll and primary production in the North Atlantic. p. 77-102. In: Reid PC, Valdés, L (eds). ICES status report on climate change in the North Atlantic. ICES Cooperative Research Report No. 310. 262 pp.
<http://www.ices.dk/pubs/crr/crr310/CRR%20310%20Climate%20Change.pdf>
118. Morrison WE, Nelson MW, Howard JF, Teeters EJ, Hare JA, Griffis RB, Scott JD, Alexander MA. 2015. Methodology for Assessing the Vulnerability of Marine Fish and Shellfish Species to a Changing Climate. NOAA Technical Memorandum NMFS-OSF-3.
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Non-Peer Reviewed Reports

119. **Hare, JA**, Burton, M, Garrison, E, Hyland, J, Parker, R, Sedberry, G. 2001. Assessment of Gray's Reef National Marine Sanctuary relative to the criteria established by the South Atlantic Fishery Management Council for Marine Protected Areas in the South Atlantic. Prepared for Gray's Reef National Marine Sanctuary and submitted to the South Atlantic Fishery Management Council on 21 May 2001.
120. Burke, JS, Burton, ML, Currin, CA, Field, DW, Fonseca, MS, **Hare, JA**, Kenworthy, WJ, Uhrin, AV 2004. Biogeographic analysis of the Tortugas Ecological Reserve: Examining the refuge effect following reserve establishment. Marine Sanctuaries Conservation Series MSD-04-01, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Marine Sanctuaries Division, Silver Spring, Maryland, 28 pp.
(<http://sanctuaries.noaa.gov/science/conservation/pdfs/tortugas.pdf>)
121. Marancik KE, **Hare JA** 2005. An annotated bibliography of diet studies on fish of the southeast United States and Gray's Reef National Marine Sanctuary. Marine Sanctuaries Conservation Series MDS-05-01. U.S. Department of Commerce National Oceanic and Atmospheric Administration, Marine Sanctuaries Division, Silver Spring, Maryland. 56 p.
(<http://sanctuaries.noaa.gov/science/conservation/pdfs/Marancik.pdf>)
122. Friedland KD, O'Reilly JE, **Hare JA**, Woods GB, Overholtz WJ, Cieri MD. 2006. Environmental preferences of herring under changing harvest regimes. Northeast Fisheries Science Center Reference Document 06-18.
(<http://www.nefsc.noaa.gov/publications/crd/crd0618/crd0618.pdf>)

123. **Hare JA**, Taylor M. 2008. Northeast U.S. Continental Shelf. pp. 11-30. *In*: Osgood KE (editor). Climate Impacts on U.S. Living Marine Resources: National Marine Fisheries Service Concerns, Activities and Needs. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-F/SPO-89.
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124. Phelan B, **Hare JA**, Mecray E, Wikfors G, Meseck S, Chambers C, Wieczorek D, Guida V, Goldberg R, Perry D, Fogarty M, Ticco P, and Stock C. 2010. pp. 95-105. *In*: NOAA Ocean Acidification Steering Committee: NOAA Ocean and Great Lake Acidification Research Plan. NOAA Special Report, 143 pp.
125. Reid PD, and 49 co-authors. 2009. A global Continuous Plankton Recorder programme. OceanObs'09 Community White Paper.
(<https://abstracts.congrex.com/scripts/imevent/abstracts/FCXNL-09A02a-1838305-1-cwp2c03.pdf>)
126. Ecosystem Assessment Program (**Hare as co-author**). 2009. Ecosystem Status Report for the Northeast U.S. Continental Shelf Large Marine Ecosystem. Northeast Fisheries Science Center Reference Document 09-11.
(<http://www.nefsc.noaa.gov/publications/crd/crd0911/crd0911.pdf>)
127. BASIN 2011. Basin-scale Analysis, Synthesis, and Integration: North Atlantic Implementation Plan (Eds) Wiebe PH, Werner FE, Hare JA, Zhou M. 50 pages
(<http://www.na-basin.org/reports/BASIN-NAIPweb.pdf>)
128. Ecosystem Assessment Program (**Hare as co-author**). 2012. Ecosystem Status Report for the Northeast Shelf Large Marine Ecosystem - 2011. Northeast Fisheries Science Center Reference Document 12-07.
(<http://www.nefsc.noaa.gov/nefsc/publications/crd/crd1207/crd1207.pdf>)

8. PRESENTATIONS

Seminars and Invited Presentations

Rutgers University, Department of Marine and Coastal Science, March 2015
 School of Marine Science and Technology, University of Massachusetts Dartmouth, January 2014
 NOAA Science Days – January 2014
 Northeast Regional Office, National Marine Fisheries Service, January 2014
 Stellwagen Bank National Marine Sanctuary Advisory Council, June 2013
 Larval Fish Conference, June 2013
 NOAA NMFS NEFSC Woods Hole Laboratory, February 2013
 Regional Association for Research on the Gulf of Maine Annual Meeting, October 2012

Northeast Regional Office, National Marine Fisheries Service, March 2011
 NOAA Brown Bag Seminar, Silver Spring, Maryland, March 2011
 NOAA Climate Science Board, Silver Spring, Maryland March 2011
 NOAA NMFS NEFSC Sandy Hook Laboratory, January 2011
 School of Marine Science and Technology, University of Massachusetts Dartmouth,
 December 2010
 University of Rhode Island, Marine Biology Lecture, November 2010
 Ocean Studies Board, National Research Council – Invited Speaker – July 2010
 Gulf of Maine Science Symposium – Keynote Speaker – October 2009
 Larval Fish Conference – Connectivity Workshop, July 2009
 School of Marine Science and Technology, University of Massachusetts Dartmouth,
 December 2008
 MARIBS Fisheries Information Product-Definition Workshop Plenary Speaker, November 2008
 NOAA NMFS NEFSC Sandy Hook Laboratory, May 2008
 University of Connecticut, Marine Sciences Program, February 2008
 NOAA NMFS NEFSC Woods Hole Laboratory, December 2007
 Dauphin Island Sea Laboratory, February 2007
 NOAA NMFS NEFSC Woods Hole Laboratory, July 2006
 School of Marine Science and Technology, University of Massachusetts Dartmouth, April
 2006
 Rutgers University, Institute of Marine Sciences, January 2006
 NOAA NMFS NEFSC Woods Hole Laboratory, November 2005
 NOAA NMFS NEFSC Sandy Hook Laboratory, August 2005
 University of Rhode Island, Graduate School of Oceanography, April 2005
 Woods Hole Oceanographic Institution, Biology Department Seminar, March 2004.
 East Carolina University, Department of Biology – November 2003.
 University of North Carolina Chapel Hill, Marine Science Department Seminar – April 2003.
 Woods Hole Oceanographic Institution, Biology Department Seminar, May 2002.
 Marine, Earth and Atmospheric Sciences Departmental Seminar, North Carolina State
 University - March 2002.
 South Atlantic Fishery Management Council - Habitat Committee - March 2002.
 Gray's Reef Sanctuary Advisory Council Meeting - March 2002.
 Estuarine Research Federation - November 2001.
 Pacific Fisheries Environmental Laboratory - August 2000.
 Duke University Marine Laboratory Seminar Series - April 2000.
 University of North Carolina, Chapel Hill, Department of Marine Sciences - April 2000.
 Dalhousie University - Biological Oceanography Seminar Series - February 2000.
 Duke University Marine Laboratory Seminar Series - December 1997.
 Illinois Natural History Survey, Center for Aquatic Ecology - February 1997.
 NOAA NMFS Sandy Hook Laboratory - August 1996.
 University of Southwestern Louisiana, Department of Biology - April 1996.
 University of North Carolina, Chapel Hill, Department of Marine Sciences - April 1996.
 Old Dominion University, Department of Biology - March 1996.
 University of North Carolina, Wilmington, Department of Biology - March 1996.

East Carolina University, Department of Biology - October 1995.
Wildlife Conservation Society - October 1995.
Dissertation Initiative for the Advancement of Limnology & Oceanography Symposium - December 1994.
NOAA NMFS Beaufort Laboratory - October 1994.
College of Charleston, Department of Biology - March 1994.
Hudson River Foundation - February 1994.

Scientific Meeting Presentations

Larval Fish Conference and American Fisheries Society – August 2014
Larval Fish Conference – June 2013
World Fisheries Congress – May 2012
American Fisheries Society – September 2011
Fisheries and the Environment Annual Science Meeting – August 2011
Southern New England Chapter Meeting of the American Fisheries Society – June 2011
PICES-2010 Annual Meeting – October 2010
American Fisheries Society – September 2010
Larval Fish Conference – May 2010.
PICES/ICES Symposium on Climate Change Effects in Fish and Fisheries – April 2010
Larval Fish Conference – August 2008.
Larval Fish Conference – September 2006.
Southern New England Chapter of American Fisheries Society Meeting – June 2006.
Larval Fish Conference - August 2001.
American Society of Limnology and Oceanography Winter Meeting - February 2001.
Federal Interagency Committee of the Geographic Information Coordinating Council, February 2000.
CoastWatch Annual Meeting - November 1999.
Larval Fish Conference - April 1999.
American Society of Limnology and Oceanography Winter Meeting - February 1999.
American Fisheries Society Annual Meeting - August 1998.
Southeast Coastal Ocean Research Conference - April 1998.
American Society of Ichthyologists & Herpetologists/Larval Fish Conference - June 1997.
American Society of Limnology and Oceanography Winter Meeting - February 1997.
South Atlantic Bight Recruitment Experiment Annual Meeting - September 1996.
American Society of Ichthyologists & Herpetologists/Larval Fish Conference - June 1996.
Middle Atlantic Bight Physical Oceanography & Meteorology Workshop - November 1995.
South Atlantic Bight Recruitment Experiment Annual Meeting - October 1995.
International Larval Fish Conference - June 1995.
Larval Fish Conference - June 1994.
Middle Atlantic Bight Physical Oceanography & Meteorology Workshop - November 1993.
Larval Ecology Meetings - August 1993.
Northeast Fish & Wildlife Conference - April 1993.
Fish Otolith Research & Application Symposium - January 1993.
Larval Fish Conference - June 1992.

American Society of Ichthyologists & Herpetologists - June 1990.

OTHER

Graduate School of Oceanography Harpoon Seminar, April 2013

Graduate School of Oceanography Harpoon Seminar, March 2012

Poster presentations and junior-authored talks are not listed

9. PROFESSIONAL SERVICE

International

Participant ICES/PICES Workshop - Global assessment of the implications of climate change on the spatial distribution of fish and fisheries – May 2013

Co-convenor World Fisheries Congress Theme Session - Science to underpin sustainable fisheries: An Ecosystem Approach – May 2012

Co-Chair of the Workshop to Define the Ocean Observing Needs for ICES - March 2012

Steering Committee Member of ICES Working Group Working Group on the Northwest Atlantic Regional Sea (WGNARS) – 2010, 2012

Co-convenor PICES Annual Science Conference Theme Session - Development and use of ocean observing and forecasting systems in coastal and marine management – October 2010

Co-convenor PICES/ICES Symposium on Climate Change Effects in Fish and Fisheries Session - Contemporary and next generation climate and oceanographic models, technical advances and new approaches – April 2010

Co-organizer ICES Annual Science Conference Theme Session – Trends in chlorophyll and primary production in a warmer North Atlantic – September 2009

Member of Census of Marine Life (CoML) Expert Group on Zooplankton and Pelagic Nekton of the Gulf of Maine - January 2009 to present

Chair of ICES-IOC Steering Group on GOOS (Global Ocean Observing System) - September 2008 to September 2010

Co-organizer - Recipes for Adaptation: Marine Management under Climate Change and Ocean Acidification – held at Conservation International, Arlington, Virginia, 18-19 May 2009

Marine Ecology Progress Series Contributing Editor, May 2005 to February 2009.

Substitute U.S. Delegate for ICES Advisory Committee on Ecosystems – May 2007

Participant in BASIN Workshop (Basin-scale Analysis, Synthesis, and Integration) – May 2007

Participant in MENU Workshop (Comparison of Marine Ecosystems of Norway and the U.S. – February 2007

External Examiner for PhD Dissertation, Western Australia University, June 2006

Participant in US/Canada Oceans Meeting – March 2006

Marine Ecology Progress Series Review Editor, January 2004 to May 2005.

Marine Ecology Progress Series Review Staff, December 2001 to 2004.

Participant in US-Poland Joint Scientific Studies Advisory Committee Meeting – June 1998, June 2001, June 2004, May 2005, May 2006, April 2008, April 2009
Co-organizer and Participant in US-Poland Joint Scientific Studies Advisory Committee Meeting – June 2002.
Reviewer of Canadian GLOBEC Program, January 2000.
External Examiner for Master Thesis, Dalhousie University, January 2000.
External Examiner for Master Thesis, Memorial University of Newfoundland, January 2000.
Participant in ICES Global Ocean Observing System Workshop - March 1999.
Co-organizer of the Life History Strategies of *Pomatomus saltatrix* Symposium at the International Larval Fish Conference – June 1995.

Domestic

Invited Participant Workshop on Best Approaches and Needs for Projecting Marine Mammal Distributions in a Changing Climate – January 2016
Invited Speaker Ecosystem Level Habitat Considerations Workshop, Mid-Atlantic Fishery Management Council – October 2015
Invited participant Environmental Defense Fund Workshop – Linking Environmental Stressors in Coastal and Marine Ecosystems – September 2015
Presentation at Mid-Atlantic Fishery Management Council Ecosystem Approaches to Fisheries Management Workshop – June 2015
Invited Speaker Application of Seasonal to Decadal Climate Predictions for Marine Resource Management Workshop – June 2015
Presentation to Northeast Regional Coordinating Council – May 2015
Presentations to Scientific and Statistical Committee of the New England Fishery Management Council – April 2015
Invited Speaker NOAA Research Council – March 2015
Invited Keynote Speaker 2015 National Scientific and Statistical Committee Workshop – February 2015
Presentation to Mid-Atlantic Fishery Management Council – February 2015
Invited Speaker Island Institute Predictive Capabilities Workshop – December 2014
Invited Speaker New England Fishery Management Council, Ecosystems Approaches to Management Committee - July 2014
Invited Speaker Council Coordinating Committee - May 2014
Invited Speaker East Coast Climate Change & Fisheries Governance Workshop - March 2014
Panel Member Mid-Atlantic Fisheries Management Council Climate Change and Fishery Science Workshop – February 2014
Participant U.S. Ocean Acidification Principal Investigators' Meeting – September 2013
Scientific Steering Committee Member for the CINAR Shelfbreak Ecosystem Workshop – January 2013
Presentations to New England Fisheries Management Council and Mid-Atlantic Fisheries Management Council - June 2012
Panel Member Metcalf Institute for Marine and Environmental Reporting, 13th Annual Science Immersion Workshop for Journalists – June 2011

Participant and Speaker at The Consequences of Temporal Variability and Climate Change on Management Actions in the Coastal Ecosystems of the New York Bight Workshop sponsored by New York Bight Sea Grant Regional Ocean Science Council, June 2010
President – Early Life History Section of the American Fisheries Society – August 2008 – May 2010

Panel member at Adaptive Management of Estuaries in the Face of Climate Change, sponsored by The Nature Conservancy, Save the Bay, RI-SeaGrant, Restore America's Estuaries, October 2008

Northeastern Regional Association of Coastal Ocean Observing Systems Board of Directors – Non Voting Member – February 2009 - present

Northeast Regional Coastal Ocean Observing System Executive Committee – September 2007 – August 2008.

Fellow of the Cooperative Institute for Climate and Ocean Research, Woods Hole Oceanographic Institution – December 2006 – October 2008

President-Elect – Early Life History Section of the American Fisheries Society – September 2006-August 2008

Participant Regional Association for Research on the Gulf of Maine Theme Session on the Role of Shipboard Sampling in Observing Systems – May 2008

Chair of Local Organizing Committee – 30th Larval Fish Conference – September 2006.

Participant in Reef Fish Connectivity and Conservation Workshop at Woods Hole Oceanographic Institution – November 2005

Member Scientific Steering Committee of U.S. GLOBEC Program, May 2004 to Oct 2010.

Presenter at North Carolina Coastal Federation 2004 State of the Coast Summit – Global Climate Change: Here and Now – October 2004

Participant in U.S. Climate Change Science Program Ecosystems Interagency Work Group Workshop – February 2004

Participant in National Science Foundation Sponsored Connectivity Workshop – November 2002.

Participant in Atlantic States Fishery Management Council Workshop on Atlantic Menhaden Mortality – October 2002.

NOAA CSCOR/NSF Northwest Atlantic GLOBEC Panel - October 2001.

Member of Local Organizing Committee - 23rd Larval Fish Conference - April 1999.

Co-organizer of American Society of Limnology and Oceanography Symposium – January 1999.

Southern Regional Representative to the Early Life History Section of the American Fisheries Society - 1996 – 1999.

NSF Northeast Pacific GLOBEC Panel - April 1997.

American Fisheries Society J. Francis Allen Scholarship Selection Committee - 1997, 1998.

Sally Richardson Award Committee - Larval Fish Conference - 1995, 1996; 2001.

Manuscript Peer-Reviews for:

Aquatic Biology

Aquatic Invasions

Canadian Journal of Fisheries and Aquatic Sciences

Continental Shelf Research
Ecological Research
Ecology
Environmental Development
Estuaries
Estuaries and Coasts
Estuarine, Coastal, Shelf Science
Fisheries Oceanography
Fishery Bulletin
Frontiers in Ecology
Geophysical Research Letters
Global Change Biology
Helgoland Marine Research
Hydrobiologia
ICES Journal of Marine Science
Journal of Experimental Marine Biology and Ecology
Journal of Geophysical Research
Journal of Marine Systems
Journal of North American Fisheries Management
Journal of the Marine Biological Association of the United Kingdom
Journal of the Marine Technology Society
Limnology and Oceanography
Marine Biology
Marine Ecology Progress Series
Marine Environmental Research
North American Journal of Fisheries Management
Oceanography
Population Ecology
Proceedings of the National Academy of Sciences
Proceedings of the Royal Society B: Biological Sciences
Scientia Marina
Transactions of the American Fisheries Society

Proposal Peer-Reviews for:

Israel Science Foundation
Netherland Council for Earth and Life Sciences
NOAA Bluefish/Striped Bass Research Program
NOAA Marine Fisheries Initiative Program (MARFIN)
NOAA National Cooperative Research Program
NOAA Saltonstall-Kennedy Grant Program
NOAA Sea Grant - Oregon
NOAA Sea Grant - Texas
NOAA Sea Grant - University of Delaware
NOAA Sea Grant - University of Maryland

NOAA Sea Grant - Woods Hole Oceanographic Institution
NOAA SEFSC Atlantic Billfish Research Program
NOAA/NMFS Cooperative Marine Education and Research Program
NSF Biological Oceanography
NSF Northeast Pacific GLOBEC
NSF Ocean Acidification Program
NSF Polar Programs
Schmidt Ocean Institute
United Kingdom Natural Environment Research Council Quantifying and Understanding the Earth System (QUEST)

Professional Affiliations

American Society for the Advancement of Science, 2004 to present.
American Geophysical Union, 1999 to 2012.
American Society of Limnology and Oceanography, 1992 to 2012.
Early Life History Section of the American Fisheries Society, 1989 to present.

Outreach

Presenter, NOAA Climate Stewards Webinar – January 2016
(<https://www.youtube.com/watch?v=PaQbP0T63Ls>)
Presenter, 2015 Annual Science Immersion Workshop for Journalists, Metcalfe Institute – June 2015
Presenter, 2015 Southern New England Recreational Fishing Symposium – March 2015
Presenter, AFS Congressional Briefing – Marine Fisheries Issues – Challenges Related to Managing Fish Stocks – March 2015
Presenter, Marine Resource Education Program – Science Module – January 2015 – (<http://www.gmri.org/our-work/fisheries-convening/mrep-northeast>)
Panel Participant, American Catch, Yale University – October 2014
Presenter, NOAA Office of General Counsel, 2014 Training Conference – July 2014
Presenter, 2014 Annual Science Immersion Workshop for Journalists, Metcalfe Institute – June 2014
Presenter, SeaGrant Fisheries Extension Network Webinar – April 2014 – (<http://seagrants.noaa.gov/News/SeaGrantAnnouncements.aspx>)
Presenter, Maritime Gloucester Speaker Series – March 2014 – (<http://maritimegloucester.org/visit/event.php?s=2014-03-13-climate-change-and-fisheries>)
Presenter, Rhode Island Saltwater Anglers Association – February 2014 – (<http://www.risaa.org/seminars/seminar0214.html>)
Presenter, Fox Hill Garden Club Public Meeting – January 2014 - <http://foxhillgardenclub.org/communityactivities/foxhillpublicmeeting.html>
Presenter, Marine Resource Education Program – Science Module – January 2014 – (<http://www.gmri.org/our-work/fisheries-convening/mrep-northeast>)
Presenter, AFS Briefing on the Hill - Climate Change and Fisheries – May 2013

Presenter, Marine Resource Education Program – Science Module – November 2012 –
<http://www.gmri.org/our-work/fisheries-convening/mrep-northeast>)
 2012 Ocean Literacy Summit, University of Rhode Island – November 2012
<http://www.neosec.org/previous-summits/2012-ocean-literacy-summit>)
 Presenter, 2012 Ocean Literacy Summit, University of Rhode Island – November 2012
<http://www.neosec.org/previous-summits/2012-ocean-literacy-summit>)
 Presenter, From Climate to Space: Hot Topics for the Station Scientist – A Short Course at the
 40th Conference on Broadcast Meteorology - August 24 2012
<http://www.ametsoc.org/meet/fainst/201240broadcast.html>)
 Guest Lecturer, Woods Hole Partnership Educational Program
<http://www.woodsholediversity.org/pep/>) – Sea Education Association – Summer 2010,
 Summer 2012, Summer 2013
 Minnewaska Area High School - Go Green Night Teleconference – April 2011
 National Science Teachers Association, Web Seminar Series –
http://learningcenter.nsta.org/products/symposia_seminars/Philadelphia10/NOAA/webseminarII.aspx) – May 2010
 NOAA North Atlantic Regional Team, Climate Change and Fisheries – November 2010

Instruction

Guest Lecturer, Sustainable Fisheries – Shoals Marine Laboratory – Summer 2015
 Co-instructor – Fisheries Oceanography (OCG673) – University of Rhode Island – Fall 2013
 Guest Lecturer, Applied Coastal Ecology – University of Rhode Island – Fall 2011
 Guest Lecturer, Biological Oceanography – University of Rhode Island – Fall 2011
 Co-instructor – Fisheries Oceanography (OCG673) – University of Rhode Island – Fall 2011
 Internship Advisor – Five Colleges Marine Sciences Internship Program - Summer 2011.
 Internship Advisor - Smith College Summer Internship Program - Summer 2011.
 Co-instructor – Fisheries Oceanography (OCG673) – University of Rhode Island – Fall 2009
 Guest Lecturer, Professional Development – University of North Carolina Chapel Hill – Fall
 2005
 Guest Lecturer, Fisheries Oceanography – University of Rhode Island – Fall 2005
 Guest Lecturer, Integrated Scientific Assessments – University of Michigan – Fall 2004.
 Instructor - Fisheries Oceanography Seminar – NCSU MEAS/Zoology Department Course 624
 – Spring 2003.
 Internship Advisor - Smith College Summer Internship Program - Summer 2002 (co-advisor).
 Department of Defense Executive Leadership Program Advisor - Summer 2001.
 Internship Advisor - Smith College Summer Internship Program - Summer 2001.
 Internship Advisor - Marine Advanced Technology Education Center - RV CAPE HATTERAS
 cruise February 2001.
 Internship Advisor - Marine Advanced Technology Education Center - RV CAPE HATTERAS
 cruise November 2000.
 Guest Lecturer, Coastal Ecological Processes - East Carolina University, Fall 1999.
 Guest Lecturer, Environmental Science - East Carolina University, Spring 1996 & 1997.
 Guest Lecturer, Marine Community Ecology - East Carolina University, Fall 1995 & Spring
 1997.

Teaching Assistant, Tropical Marine Ecology - SUNY Stony Brook, Winter 1991.
Practicum in Teaching, Ichthyology - SUNY Stony Brook, Fall 1990.
Teaching Assistant, Environmental Problems - SUNY Stony Brook, Fall 1988.

Post-Doctoral Advisees

Nathan Rebeck – National Research Council – 2011 – 2013, Integrated Statistics -2013-present
Sara Turner – Integrated Statistics – 2014 – 2015
Richard Bell – National Research Council – 2012 – 2015
Megan O'Connor – National Research Council – 2011 – 2013
David Richardson – National Research Council – 2008-2009.
Mark Wuenschel – Oak Ridge Institute for Science and Education - 2002-2005.
Frank Hernandez – Oak Ridge Institute for Science and Education - 2002-2004.
Dariusz Fey – National Research Council – 2002-2003.
Cecily Natunewicz – National Research Council – 2001-2002.

Student Committees

Conor McManus – University of Rhode Island, Graduate School of Oceanography, ongoing, Ph.D. Committee Member
Ana Malek – University of Rhode Island, Graduate School of Oceanography, Spring 2015, Ph.D. Committee Member
Lis Henderson – University of Rhode Island, Graduate School of Oceanography, Spring 2014, M.Sc. Committee Member
Adam Greer – Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Summer 2013, Ph.D Committee Member
Jason Boucher – University of Massachusetts, Dartmouth, Summer 2013, Ph.D. Committee Member
Lanora Lang – Dauphin Island Sea Lab, Spring 2012, M.Sc. Committee Member
Anna Pfeiffer-Herbert – University of Rhode Island, Graduate School of Oceanography, Doctor of Philosophy Degree, Spring 2012 - Committee Member
Kiersten Curti – University of Rhode Island, Graduate School of Oceanography, Doctor of Philosophy Degree, Spring 2012 - Committee Member
Alison Cleary - University of Rhode Island, Graduate School of Oceanography, Masters of Science Degree, Spring 2010 - Committee Member
Ivan Mateo – University of Rhode Island, Department of Fisheries, Animal & Veterinary Science, Doctor of Philosophy Degree, Spring 2009 – Committee Member
Klaus Huebert – Rosenstiel School for Marine and Atmospheric Science, University of Miami, Fall 2008, Doctor of Philosophy Degree, Committee Member
Harvey Walsh – North Carolina State University, Department of Zoology, Masters of Science Degree, Summer 2007. Co-advisor.
Karen Pherson Edwards – University of North Carolina Chapel Hill, Department of Marine Sciences, Doctor of Philosophy Degree, Summer 2006 – Committee member.
Sarah Carr – University of North Carolina Chapel Hill, Department of Marine Sciences, Doctor of Philosophy Degree, Spring 2006 – Committee Member.

Abby McClean – Department of Fisheries, Animal & Veterinary Science, University of Rhode Island, Masters Degree, Spring 2006 - Committee Member

Jacqueline Jenkins - East Carolina University, Master Degree, Spring 2005 - Co-advisor.

Steven Searcy - North Carolina State University, Marine, Earth and Atmospheric Sciences, Doctor of Philosophy Degree, Fall 2005 – Committee member.

Gretchen Bath Martin - Old Dominion University, Department of Biology, Doctor of Philosophy Degree, Fall 2003 – Committee member.

Matt Kimball - North Carolina State University, Department of Zoology, Masters Degree, Summer 2003 – Co-advisor.

Katrin Marancik – East Carolina University, Master Degree, Spring 2003 – Co-advisor.

Katrin Marancik - University of North Carolina Wilmington, Undergraduate Honors Thesis, Spring 2001 – Committee Member.

Mimi Tzeng - University of North Carolina Wilmington, Masters Degree, Spring 2001 – Co-advisor.

Jason Rogers - University of North Carolina Wilmington, Masters Degree, Spring 2000 – Co-advisor.

Current Academic Appointments

Faculty, University of Massachusetts School of Marine Sciences, 2007 to present – Serve on student committees and collaborate with other faculty.

Adjunct Scientist, Biology Department, Woods Hole Oceanographic Institution, 2005 to present - Collaborate with faculty on research projects related to fisheries oceanography.

Adjunct Faculty, Fisheries, Animal & Veterinary Science, University of Rhode Island, 2006 to present - Collaborate with faculty and serve on graduate student committees.

10. AGENCY SERVICE

Committees and Workshops

Co-Chair – Ecosystem Integration Committee, Technical Expert Working Group for River Herring – Oct 2013 to present

Co-lead Northeast Fisheries Climate Vulnerability Assessment – 2013 – present

Chair, NEFSC Climate, Ecosystems, Habitat, and Assessment Steering Group – 2014 - present

Contributor, NOAA NMFS Climate Science Strategy - 2014

Chair, NEFSC Climate, Ecosystems, and Stock Assessment Working Group – 2013 - 2014

Fisheries and the Environment Scientific Steering Committee Member, September 2007 – present, Chair 2010 -2012

Participant in the Oceans and Coastal Indicator Team, National Climate Assessment - 2013

Participant at Ocean Acidification Data Management Workshop – March 2012

Participant at Workshop on Proactive Conservation Planning for Northwest Atlantic Cusk – December 2012

Participant at Stock Assessment Review Committee 52 - Southern Demersal Working Group - Winter Flounder Assessments – May 2011

Organizer – Fisheries and the Environment Annual Science Meeting – June 2010

Presenter – Atlantic States Marine Fisheries Commission, Atlantic Croaker Assessment Workshop – November 2009
 Participant - Applying IPCC-class Models of Global Warming to Fisheries Prediction, 15-17 June 2009
 Participant – Transboundary Resource Assessment Committee, Gulf of Maine/Georges Bank Atlantic Herring Stock Assessment Update – June 2009
 NEFSC Representative – NOAA Fisheries Science and Technical Support for Large Marine Ecosystems – 2-3 June 2009
 Participant - NOAA Fisheries/National Marine Sanctuaries Summit, 27-29 May 2009.
 Panel Member – Write Better Session – 9th Northeast Fisheries Science Center Fisheries Science Symposium – January 2008
 NEFSC Committee on Scientific Standing and Promotion – October 2005-January 2009
 NOAA Leadership Seminar Participant – 28-31 August 2006
 Northeast Fisheries Science Center Resource Survey/Ecosystem Monitoring Task Force Chair – June 2005 to 2008
 NOAA Aquatic Invasive Species Strategic Planning Workshop Participant – September 2004
 Southeast Fisheries Science Center Coral Reef Program Review Participant - March 2004.
 NOAA National Marine Fisheries Service (NMFS) Sponsored Workshop Participant – Building Environmental Explicit Stock Assessments – Discussion moderator for ‘Problems of Scale’ theme group - November 2003.
 Gray’s Reef National Marine Sanctuary Sponsored Workshop on Reef Fish Monitoring Participant – May 2003.
 Pacific Fisheries Environmental Laboratory Review Panel Member, August 2000.
 South Atlantic Fishery Council Habitat Advisory Panel Meeting Participant, August 2001.
 South Atlantic Fishery Council Habitat Advisory Panel Meeting Participant, August 2000.
 NCCOS Coral Reef Workshop Participant - April 1999, December 1999.
 1999 Annual CoastWatch Meeting Organizer - November 1999.

Special Assignments

Chief Scientist on a NOAA Natural Resource Damage Assessment sponsored cruise on board the NOAA Ship HENRY H. BIGELOW in response to the Deepwater Horizon MC252 incident. Organized, planned and lead 12 scientists conducting acoustic, hydrography, and water chemistry operations in the vicinity of the wellhead.
 Acting Oceanography Branch Chief, 2007-2008 – Manage and supervise group of 10-15 federal employees and 2-5 contract employees, students and post-docs. Prepare branch budgets and allocate funds. Responsible for operational hydrographic and plankton programs.
 National Research Council Post-Doctoral Advisor, 2001 to present – Selected by National Research Council to be able to serve as advisor for post-docs under research associateship program.
 Fisheries Oceanography and Ecology Team Leader, 1999 to 2005 - Manage and supervise group of 6 to 9 federal employees and 5 to 10 contract employees, students, and post-docs. Prepare team budgets and allocate funds. Lead research team in conducting sea-going research, laboratory studies, and modeling studies.

Acting Fisheries Oceanography and Ecology Team Leader, 1998 to 1999 – Temporarily managed and supervised a group of 6 to 9 federal employees and 5 to 10 contract employees, students, and post-docs. Prepare team budgets and allocate funds. Lead research team in conducting sea-going research.

Southeast Region CoastWatch Node Manager – NOAA Beaufort Laboratory, 1998 to 2002 - Managed NOAA National Environmental Satellite, Data, and Information Service (NESDIS) Program at NOAA Beaufort Laboratory that made remotely-sensed data available for researchers, coastal managers, educators and the public.

11. OTHER RELEVANT INFORMATION

Field Activities

Chief Scientist on 32 oceanographic cruises in the western Atlantic Ocean and Gulf of Mexico. Vessels include RV ONRUST, RV CAPE HATTERAS, RV PELICAN, NOAA Ship DELAWARE II, NOAA Ship FERREL, NOAA Ship OREGON II, NOAA Ship CHAPMAN, NOAA Ship GORDON GUNTER, and NOAA Ship HENRY H. BIGELOW.

Cruise participant on 36 additional oceanographic and resource survey cruises in the western Atlantic Ocean, Gulf of Mexico, and Caribbean Sea. Additional vessels include RV ENDEAVOR, RV ISELIN, NOAA Ship ALBATROSS IV and NOAA Ship PISCES.

Extensive field experience with various biological and physical oceanographic sampling equipment including bongo nets, Tucker trawl, MOCNESS, channel nets, Video Plankton Recorder, moored current meters, Conductivity-Temperature-Depth instruments, Expendable-Bathythermographs, thermosalinographs, water samples for ocean chemistry, and satellite-tracked drifters

Active in the implementation of new technologies for ecosystem monitoring. Work has included use of the Video Plankton Recorder for quantifying zooplankton and the In situ Ichthyoplankton Imaging System for quantifying ichthyoplankton.

Participant in NEFSC Ship of Opportunity Program meeting merchant vessels to equip for sampling and to download data after sampling. Ship rider on 1 SOOP cruise aboard the MV Oleander

Lead larval ingress monitoring program from 1998 to 2005 and participated in program from 1994 to 1998.

Research diver for projects studying recruitment and post-settlement mortality of coral reef fishes in Barbados and Bermuda.

12. REFERENCES

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